

SEQUENCE LISTING



# 5

<110> Cheung, Nai-Kong V.  
Larson, Steven M.  
Guo, Hong-Fen  
Rivlin, Ken  
Sadelain, Michel

<120> Single Chain FV Constructs of Anti-Ganglioside GD2  
Antibodies

<130> MSK.P-013-2

<140> 10/075,947

<141> 2002-02-13

<150> 09/142,974

<151> 1998-09-18

<150> PCT/US97/04427

<151> 1997-03-20

<150> 60/013,703

<151> 1996-03-20

<160> 5

<170> PatentIn Ver. 2.1

<210> 1

<211> 717

<212> DNA

<213> Murine

<220>

<223> 5F11-scFv

<220>

<221> unsure

<222> (37)

<220>

<221> unsure

<222> (79)

<400> 1

cagggtgaaac tgcagcagtc aggacctgaa ctggtgnagc ctggggcttc agtgaagata 60  
tcctgcaaga ctctggana caaatcact gaatacacca tgcactgggt gaagcagagc 120  
catggaaaga gccttgagtg gattggaggt attaatccta acaatgggtg tactaactac 180  
aagcagaagt tcaagggcaa ggccacattg actgtagaca agtcctccag cacagcctac 240  
atggagctcc gcagcctgac atctgaggat tctgcagtct attactgtgc aagagatact 300  
acggtcccgt ttgcttactg ggtccaaggg accacgggtca ccgctcctc aggtggaggc 360  
ggttcaggcg gaggtggctc tggcgggtggc ggatcggaca tcgagctcac tcagtctcca 420  
gcaatcatgt ctgcatctcc aggggagaag gtcacatga cctgcagtgg cagctcaagt 480  
ataagtaca tgcactggtg ccagcagaag cctgtcacct ccccaaaaag atggatttat 540  
gacacatcca aactggcttc tggagtccct gctcgttca gtggcagtgg gtctgggacc 600  
tcttattctc tcacaatcag cagcatggag gctgtagatg ctgccactta ttactgcat 660  
cagcggagta gttaccgct cacgttcggt gctgggacac agttggaaat aaaacgg 717

<210> 2

<211> 714

<212> DNA

<213> Murine

<220>

<223> 3G6-scFv

<400> 2

agtattgtga tgaccagac tcccaaattc ctgcttgtat cagcaggaga cagggttacc 60  
ataacctgca aggccagtca gagtgtgagt aatgatgtgg ctgtgtacca acagaagcca 120  
gggcagcttc cgaaactgct gatatactct gcatccaatc gctacactgg agtcctgat 180  
cgcttcactg gcagtggata tgggacggat ttcatttca ccatcagcac tgtgcaggct 240  
gaagacctgg cagtttattt ctgtcagcag gattatagct cgctcggagg ggggaccaag 300  
ctggaaataa aaggtggagg cggttcaggc ggaggtggct ctggcgggtg cggtatcgag 360  
gtgcagggtga aggagtcagg acctggcctg gtggcgccct cacagagcct gtccatcact 420  
tgcactgtct ctgggttttc attaaccaat tatggtgtac actgggttcg ccagcctcca 480  
ggaaagggtc tggagtggct gggagtaata tgggctggtg gaagcacaaa ttataattcg 540  
gctcttatgt ccagactgag catcagcaag gacaactcca agagccaagt ttcttaaaa 600  
atgaacagtc tgcaactga tgacacagcc atgtactact gtgccagtgc ggggggtaac 660  
tacggctatg ctttggacta ctgggggtcaa ggaacctcag tcaccgtctc ctca 714

<210> 3

<211> 1176

<212> DNA

<213> Murine

<220>

<223> 5F11-scFv-streptavidin

<220>

<221> unsure

<222> (37)

<220>

<221> unsure

<222> (79)

<400> 3

cagggtgaaac tgcagcagtc aggacctgaa ctggtgnagc ctgggggcttc agtgaagata 60  
tcctgcaaga cttctggana caaattcact gaatacacca tgcactgggt gaagcagagc 120  
catggaaaga gccttgagtg gattggaggt attaatecta acaatggtgg tactaactac 180  
aagcagaagt tcaagggcaa ggccacattg actgtagaca agtcctccag cacagcctac 240  
atggagctcc gcagcctgac atctgaggat tctgcagtct attactgtgc aagagatact 300  
acggtcccggt ttgcttactg ggtccaaggg accacgggtca cctgtctctc aggtggaggc 360  
gggtcaggcg gaggtggctc tggcgggtggc ggatcggaca tcgagctcac tcagtctcca 420  
gcaatcatgt ctgcatctcc aggggagaag gtcacatga cctgcagtgg cagctcaagt 480  
ataagttaca tgcactggta ccagcagaag cctgtcacct ccccaaaaag atggatttat 540  
gacacatcca aactggcttc tggagtcctt gctcgttca gtggcagtgg gtctgggacc 600  
tcttattctc tcacaatcag cagcatggag gctgtagatg ctgccactta ttactgcat 660  
cagcggagta gttaccgct caggttcggt gctgggacac agttggaaat aaaacgggcg 720  
gccgctggat ccggtgctgc tgaagcaggt atcaccggca cctggtacaa ccagctcggc 780  
tcgaccttca tctgaccgc gggcgccgac ggcgccctga ccggaacctt cgagtcggcc 840  
gtcggcaacg ccgagagccg ctacgtcctg accggtcgtt acgacagcgc cccggccacc 900  
gacggcagcg gcaccgccct cggttggacg gtggcctgga agaataacta ccgcaacgcc 960  
cactccgcga ccacgtggag cggccagtac gtcggcggcg ccgaggcgag gatcaacacc 1020  
cagtggctgc tgacctcgg cacaaccgag gccaacgcct ggaagtccac gctggtcggc 1080  
cacgacctc tcaccaaggt gaagccgtcc gccgcctccg gatccgaaca aaagtgate 1140  
tcagaagaag atctatgcat acatcacat catcat 1176

<210> 4

<211> 1173

<212> DNA

<213> Murine

<220>

<223> 3G6-scFv-streptavidin

<400> 4

agtatttga tgaccagac tccaaattc ctgcttgtat cagcaggaga cagggttacc 60  
ataacctga aggccagtca gagtgtgagt aatgatgtgg cttggtacca acagaagcca 120  
gggcagctc cgaaactgct gatatactct gcatccaatc gctacactgg agtcctgat 180  
cgcttactg gcagtggata tgggacggat ttactttca ccatcagcac tgtgcaggct 240  
gaagacctgg cagtttattt ctgtcagcag gattatagct cgtcggagg ggggaccaag 300

ctggaaataa aagggtggagg cgggtcaggc ggaggtggct ctggcgggtg cgatcgcag 360  
 gtgcaggtga aggagtcagg acctggcctg gtggcgccct cacagagcct gtccatcact 420  
 tgcactgtct ctgggttttc attaaccaat tatggtgtac actgggttcg ccagcctcca 480  
 ggaaagggtc tggagtggtt gggagtaata tgggctggtg gaagcacaaa ttataattcg 540  
 gctcttatgt ccagactgag catcagcaag gacaactcca agagccaagt ttcttaaaa 600  
 atgaacagtc tgcaaaactga tgacacagcc atgtactact gtgccagtcg ggggggtaac 660  
 tacggctatg ctttgacta ctgggggtcaa ggaacctcag tcaccgtctc ctcagcggcc 720  
 gctggatccg gtgctgctga agcaggtatc accggcacct ggtacaacca gtcgggctcg 780  
 acctcatcg tgaccgcggg cgccgacggc gccctgaccg gaacctacga gtcggccgctc 840  
 ggcaacgccg agagccgcta cgtcctgacc ggtcggttac acagcgcccc ggccaccgac 900  
 ggcagcggca ccgccctcgg ttggacggtg gcctggaaga ataactaccg caacgcccac 960  
 tccgcgacca cgtggagcgg ccagtacgtc ggcggcggcg aggcgaggat caacaccag 1020  
 tggctgctga cctccggcac aaccgaggcc aacgcctgga agtcacgct gtcggccac 1080  
 gacacctca ccaagtgaa gccgtccgc gccctcggat ccgaacaaa getgatctca 1140  
 gaagaagatc tatgcataca tcaccatcat cat 1173

<210> 5

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: antibody tag

<400> 5

Gly Ala Pro Val Pro Val Pro Asp Pro Leu Glu Pro Arg

1

5

10